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CENTRAL INTELLIGENCE AGENCY

REPORT

INFORMATION REPORT

CD NO.

COUNTRY USSR (Moscow Oblast)

DATE DISTR. 11 May 1950

SUBJECT Aircraft Engine Plant No. 500 in Moscow-Tushino

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PLACE
ACQUIREDNO. OF ENCLS. 3
(LISTED BELOW)DATE OF
INFO.SUPPLEMENT TO 50X1-HUM
REPORT NO.

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1. Location

Northwest of the center of Moscow, north of the Tushino military airfield, on the canal between the Khimki reservoir and the Moskva River.

2. Plant Installations (see Annex 1)

The plant covered 500 x 1,000 meters. No details available on the southern section of the plant.

3. Designation

The plant was generally called Zavod 500.

4. Historical Data

The plant seemed to have existed for a long time. It was continually being enlarged. The construction work was still going on in October 1949.

5. Work Force

No details available.

6. Production

a. The production of small work pieces of various forms was observed in the forge (item 5 of Annex 1).

Large quantities of 10-cm steel disks about 40 to 50 cm in diameter were forged. No further details available.

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b. In workshop (8) the X-raying of work pieces was observed in July or August 1949. They were ground at different places and then examined with unknown testing apparatus. Other production processes were not observed.

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c. The testing of jet engines was heard day and night.

Finished jet engines were, however, never seen

The boxes were marked by the inscriptions "Top", "Bottom", and "Do not Drop". These boxes were continually seen in front of the test stands near the P.W. camp. The rate of production could not be estimated

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d. For observed work pieces see Annexes 2 and 3.

7. Raw Materials and Semi-Finished Products

Rawlings of various forms and sizes arrived on the factory spur track to be machined in the plant. Steel ingots 20 x 20 x 20 cm and 30 x 30 x 30 cm large were also delivered. They seemed to have been subjected to a heat treatment since they were steel blue. The arrival of steel and light metal rods of various profiles and sizes was also observed.

8. Power Supply

No details available.

9. Outgoing Shipments

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the loading of full boxes on freight cars at irregular intervals.

10. Security Measures

The plant was surrounded by a board fence. There were watch towers occupied by civilians, mostly women, from 100 to 200 meters apart. At night the factory fence was also guarded by police dogs.

Comment:

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a. The expansion, after the war, of Plant No 500 has been confirmed by several returned P.Ws. The erection of a new workshop has been previously reported.

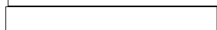

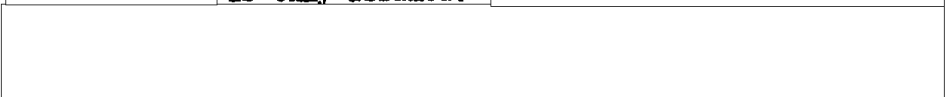

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b. The production of jet engines which  50X1-HUM

 is only assumed. 



- 3 Annexes: 1. Layout sketch of Aircraft Engine Plant No 500
2. }
3. } Work Piece Observed in Plant No 500



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1 / Annex

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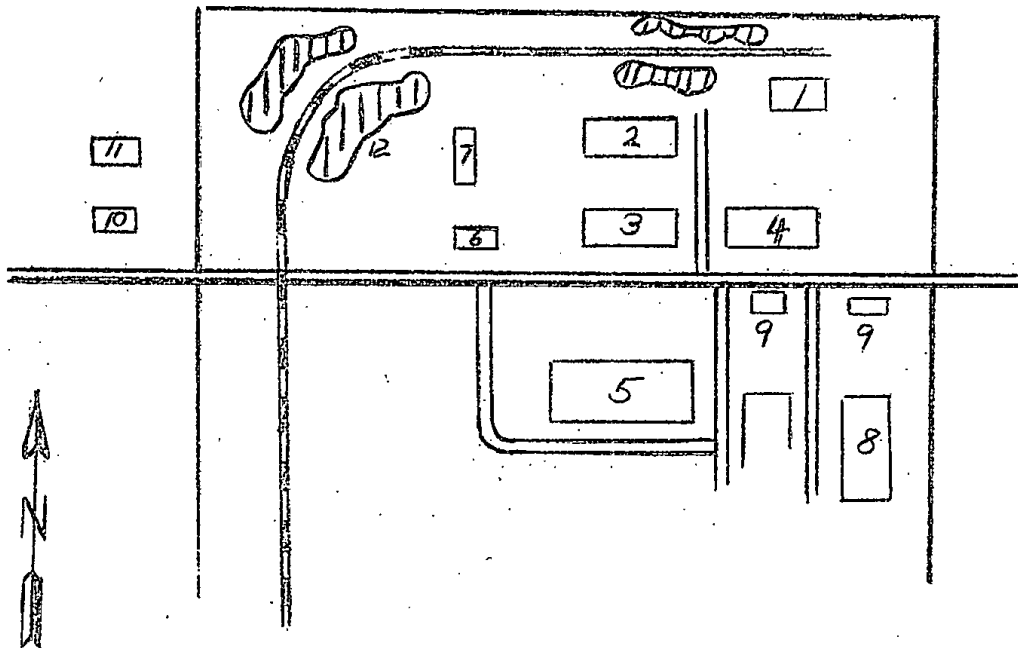
Legend to Annex 1

- 1 Boilerhouse with six or seven boilers, fired by hand. Two brick smokestacks were beside the building. A coal dump (conveyer belt available) was in front of the building
- 2 Workshop under construction; the steel frame was completed but the roof was still lacking
- 3 New three-story workshop. lathes of various sizes and machine tools were seen on the ground floor
- 4 Same as 3. Offices on the second floor.
- 5 Forge with 10 air hammers, several electric and oil-burning annealing furnaces
- 6 Compressor department with three electric air compressors and several transformers
- 7 Storage shed (various electric equipment, light metal ingots, rods and tubes (hard material, duraluminum) and soft aluminum sheets)
- 8 Workshop with lathes, boring, milling and shaping machines in addition to various other machine tools. X-ray sets and other testing instruments
- 9 Test stands for jet engines, concrete structures about 20 meters high with roofs slanting to the back. Two rectangular openings about 6 x 7 meters were seen under the roof in each of the buildings
- 10 Camp No 7896
- 11 New test stands for five jet engines built in 1948. Two of these stands have been continually in operation since May 1949
- 12 Scrap dump

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Annex I

Layout Sketch of Aircraft Engine Plant No. 500*scale about 1:4000*

Legend: See report

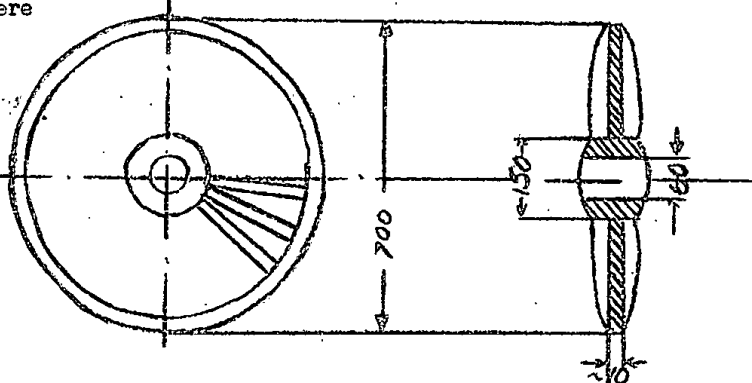
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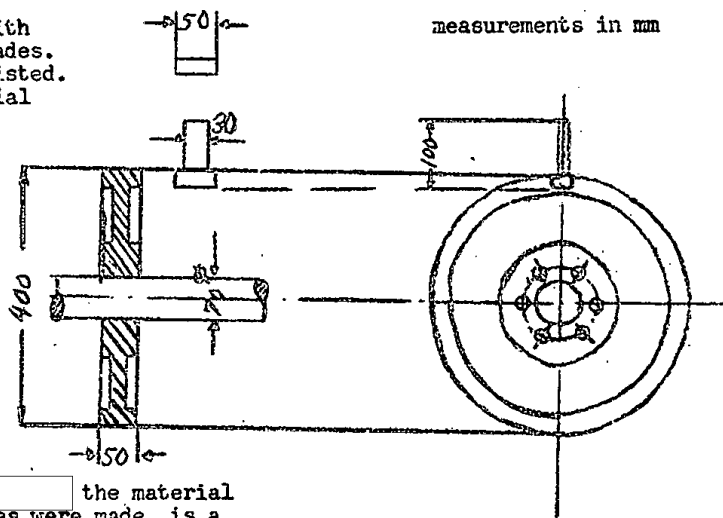
Annex 2

Work Piece Observed in Plant No. 500

Delivered as light metal rawlings, well and smoothly cast, color: lusterless silver, with ribs but without bore. The rawlings were bored and smoothened in workshop 8. They finally looked as if they had been polished.



Shaft and wheel with inserted steel blades. The blades are twisted. Part of the material had blued.



the material of which the blades were made is a high-quality and very expensive steel. The shavings are carefully collected.

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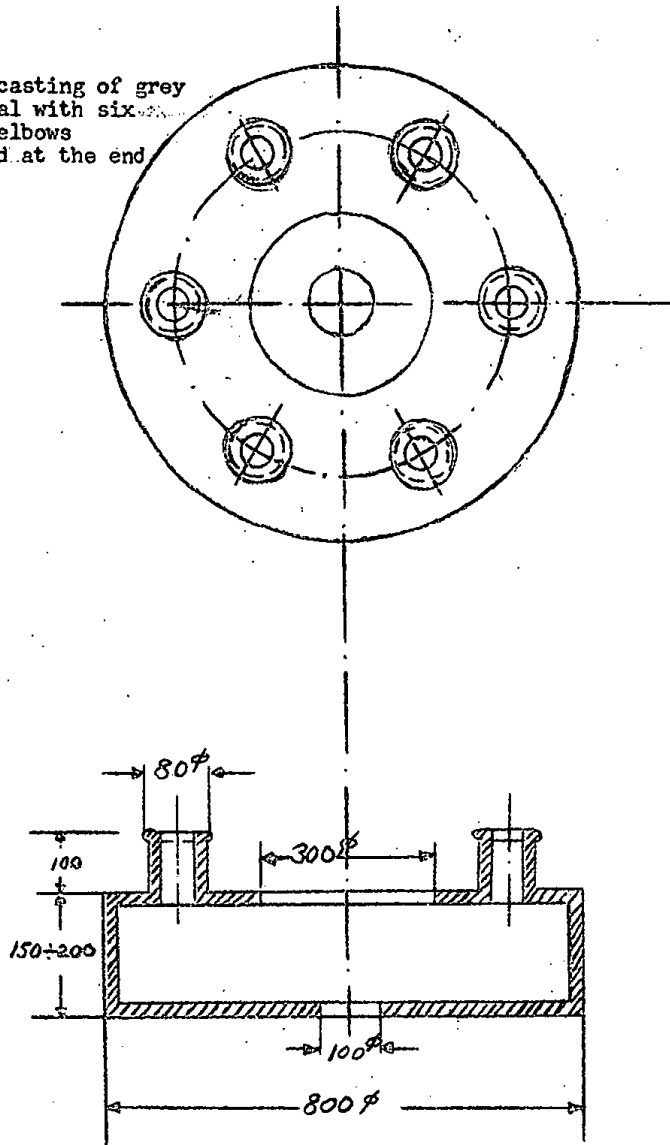
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Annex 3

Work Piece Observed in Plant No. 500

A hollow casting of grey
light metal with six
attached elbows
reinforced at the end



measurements in mm

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